Amendments to the Claims

Kindly amend claims 1, 3, 5, 6, 8-11 & 13-20, as set forth below. All pending claims are reproduced below, with changes in the amended claims shown by underlining (for added matter) and strikethrough/double brackets (for deleted matter).

1. (Currently Amended) A method of updating event data on a page of a computing environment, said method comprising:

automatically, periodically retrieving by a browser server event data using a refresh frame of a page displayed by the browser, the refresh frame being part of a frameset of the browser, the frameset including the refresh frame and a data frame, the refresh frame being a hidden, zero-width frame and the data frame being a visible frame including an application interface, and the event data being updated information associated with only a portion of the data frame; [[and]]

updating by the browser only the portion of the data frame of the page with event data automatically retrieved using the refresh frame, the updating including employing code understood natively by the browser, wherein the portion of the data frame updated is the portion of the data frame to which the event data is associated, and comprises at least one element of the data frame selectively chosen based on the event data, the portion of the data frame updated being less than the entire data frame; and

wherein the frameset comprises the refresh frame and a plurality of data frames, and wherein one data frame of the plurality of data frames is a visible frame at a time as a user navigates across the plurality of data frames, the plurality of data frames including at least one static data frame and at least one other data frame, and wherein the automatically, periodically retrieving by the browser server event data using the refresh frame comprises automatically, periodically retrieving server event data for the other data frame of the at least one other data frame of the plurality of data frames only when the other data frame is the visible frame.

2. (Original) The method of claim 1, wherein said code understood natively by the browser comprises code supported by an interpreter built into the browser as originally configured.

3. (Currently Amended) The method of claim 1, ~~wherein said code understood natively by the browser comprises JavaScript code~~ wherein the automatically, periodically retrieving event data is initiated by a call originating with the other data frame when the other data frame becomes the visible frame, the call being automatically invoked when the user navigates to the other data frame, the call passing to the refresh frame a parameter identifying the other data frame for which event data is to be retrieved, wherein initiation of the automatically, periodically retrieving is handled entirely by the browser without assistance of an application external to the browser.

4. (Previously Canceled).

5. (Currently Amended) The method of claim [[1]] 3, ~~wherein the frameset comprises a plurality of data frames, and the automatically, periodically retrieving comprises associating with the refresh frame a parameter that identifies one data frame of the plurality of data frames for which server event data is to be retrieved~~ further comprising automatically terminating the automatically, periodically retrieving by a call originating with the other data frame, the call being automatically invoked when the user navigates away from the other data frame, and wherein termination of the automatically, periodically retrieving is handled entirely by the browser without assistance of an application external to the browser.

6. (Currently Amended) The method of claim [[5]] 3, ~~further comprising subsequently calling by the one data frame a function to stop the automatically, periodically retrieving of event data for that data frame~~ further comprising blocking the automatically, periodically retrieving when a static data frame of the at least one static data frame is the visible frame.

7. (Previously Presented) The method of claim 1, wherein said automatically, periodically retrieving further comprises periodically requesting, by the refresh frame, the server to refresh the refresh frame.

8. (Currently Amended) The method of claim [[5]] 3, wherein said periodically retrieving further comprises:

detecting the event data associated with the one other data fame when the one other data frame is the visible frame;

sending, responsive to the detecting, the event data to the browser via the server; and

wherein the detecting and the sending are performed automatically by an application coupled to the server irrespective of a manual request by a user for at least one of the periodically retrieving and the updating.

9. (Currently Amended) The method of claim 1, wherein said periodically retrieving the event data further comprises receiving the event data at the browser within the code understood natively by the browser to be used to update the portion of the one other data frame, wherein the code is generated by the application.

10. (Currently Amended) The method of claim 1, wherein said updating the portion of said data frame further comprises executing the code by the browser to update the portion of the one other data frame.

11. (Currently Amended) A system for updating event data on a page of a computing environment, said system comprising:

means for automatically, periodically retrieving by a browser server event data using a refresh frame of a page displayed by the browser, the refresh frame being part of a frameset of the browser, the frameset including the refresh frame and a data frame, the refresh frame being a hidden, zero-width frame and the data frame being a visible frame including an application interface, and the event data being updated information associated with only a portion of the data frame; [[and]]

means for updating by the browser only the portion of the data frame of the page with event data automatically retrieved using the refresh frame, the updating including employing code understood natively by the browser, wherein the portion of the data frame updated is the portion of the data frame to which the event data is associated, and comprises at least one element of the data frame selectively chosen based on the event data, the portion of the data frame updated being less than the entire data frame; and

wherein the frameset comprises the refresh frame and a plurality of data frames, and wherein one data frame of the plurality of data frames is a visible frame at a time as a user navigates across the plurality of data frames, the plurality of data frames including at least one static data frame and at least one other data frame, and wherein the means for automatically, periodically retrieving by the browser server event data using the refresh frame comprises means for automatically, periodically retrieving server event data for one other data frame of the at least one other data frame of the plurality of data frames only when the one other data frame is the visible frame.

12. (Original) The system of claim 11, wherein said code understood natively by the browser comprises code supported by an interpreter built into the browser as originally configured.

13. (Currently Amended) The system of claim 11, ~~wherein the frameset comprises a plurality of data frames, and the means for automatically, periodically retrieving comprises associating with the refresh frame a parameter that identifies one data frame of the plurality of data frames for which server event data is to be retrieved~~ wherein the means for automatically, periodically retrieving event data is initiated by a call originating with one other data frame when the one other data frame becomes the visible frame, the call being automatically invoked when the user navigates to the one other data frame, the call passing to the refresh frame a parameter identifying that one other data frame for which event data is to be retrieved, wherein initiation of the means for automatically, periodically retrieving is handled entirely by the browser without assistance of an application external to the browser.

14. (Currently Amended) The system of claim 13, further comprising ~~subsequently calling by the one data frame a function to stop the means for automatically, periodically retrieving of event data for that data frame~~ automatically terminating the means for automatically, periodically retrieving by a call originating with the one other data frame, the call being automatically invoked when the user navigates away from that one other data frame, and wherein termination of the means for automatically, periodically retrieving is handled entirely by the browser without assistance of any application external to the browser.

15. (Currently Amended) The system of claim 13, wherein said means for periodically retrieving further comprises:

means for detecting the event data associated with the one other data frame when the one other data frame is the visible frame;

means for sending, responsive to the detecting, the event data to the browser via the server; and

wherein the detecting and the sending are performed automatically by an application coupled to the server irrespective of a manual request by a user for at least one of the periodically retrieving and the updating.

16. (Currently Amended) ~~At least one program storage device readable by a machine, tangibly embodying at least one program of instructions executable by the machine to~~ A computer program produce comprising one or more computer-readable storage media having stored thereon computer executable instructions that, when executed by a processor, perform a method of updating event data on a page of a computing environment, said method comprising:

automatically, periodically retrieving by a browser server event data using a refresh frame of a page displayed by the browser, the refresh frame being part of a frameset of the browser, the frameset including the refresh frame and a data frame, the refresh frame being a hidden, zero-width frame and the data frame being a visible frame including an application interface, and the event data being updated information associated with only a portion of the data frame; [[and]]

updating by the browser only the portion of the data frame of the page with event data automatically retrieved using the refresh frame, the updating including employing code understood natively by the browser, wherein the portion of the data frame updated is the portion of the data frame to which the event data is associated, and comprises at least one element of the data frame selectively chosen based on the event data, the portion of the data frame updated being less than the entire data frame; and

wherein the frameset comprises the refresh frame and a plurality of data frames, and wherein one data frame of the plurality of data frames is a visible frame at a time as a user navigates across the plurality of data frames, the plurality of data frames including at least one static data frame and at least one other data frame, and wherein the automatically, periodically retrieving by the browser server event data using the refresh frame comprises automatically, periodically retrieving server event data for one other data frame of the at least one other data frame of the plurality of data frames only when the one other data frame is the visible frame.

17. (Currently Amended) The ~~at least one program storage device~~ computer program product of claim 16, wherein said code understood natively by the browser comprises code supported by an interpreter built into the browser as originally configured.

18. (Currently Amended) The ~~at least one program storage device~~ computer program product of claim 16, ~~wherein the frameset comprises a plurality of data frames, and the automatically, periodically retrieving comprises associating with the refresh frame a parameter that identifies one data frame of the plurality of data frames for which server event data is to be retrieved~~ wherein the automatically, periodically retrieving event data is initiated by a call originating with one other data frame when the one other data frame becomes the visible frame, the call being automatically invoked when the user navigates to the one other data frame, the call passing to the refresh frame a parameter identifying that one other data frame for which event data is to be retrieved, wherein initiation of the automatically, periodically retrieving is handled entirely by the browser without assistance of an application external to the browser.

19. (Currently Amended) The ~~at least one program storage device~~ computer program product of claim 18, further comprising ~~subsequently calling by the one data frame a function to stop the automatically, periodically retrieving of event data for that data frame~~ automatically terminating the automatically, periodically retrieving by a call originating with the one other data frame, the call being automatically invoked when the user navigates away from that other data frame, and wherein termination of the automatically, periodically retrieving is handled entirely by the browser without assistance of an application external to the browser.

20. (Currently Amended) The ~~at least one program storage device~~ computer program product of claim 18, wherein said periodically retrieving further comprises:

detecting the event data associated with the one other data frame when the one other data frame is the visible frame;

sending responsive to the detecting, the event data to the browser via the server; and

wherein the detecting and the sending are performed automatically by an application coupled to the server irrespective of a manual request by a user for at least one of the periodically retrieving and the updating.

* * * * *